



GENERAL

Transmitter Type

FM Broadcast, 100% solid state

Configuration

Three power modules and three associated switching power supplies

Main and standby IPA with associated main and standby power supplies available

Main and standby exciters available

Main and standby low voltage power supplies available

RF Output Power

100 W to 4,150 W into a 1.2 VSWR

100 W to 3,750 W into a 1.5 VSWR

RF Output Connection

1-5/8 inch EIA, female

(3-1/8 inch and 7/8 inch available)

RF Output Impedance

50 ohms unbalanced

Efficiency

64% typical at 3.75 kW

RF Load VSWR

1.5:1 - Automatic power reduction into higher VSWR

Protected from open and short circuits at all phase angles

RF Frequency Range

87.5 MHz to 108 MHz

No tuning required

Turn Around Loss

Better than 13 dB

Excitation

FM Exciter capable of 10 W

Spurious and Harmonic

Meets or exceeds all FCC/IC requirements

AC INPUT

Voltage

180 V ac to 264 V ac, 3 phase/1 phase, 50/60 Hz

312 V ac to 457 V ac, 3 phase, 50/60 Hz

User adjustable

Power Consumption

5.86 kW at 3.75 kW RF output (5.92 kVA)

Power Factor

Unity Power Factor Corrected (typically 0.99)

Power Line Harmonics

IEEE 519-1992

AUDIO PERFORMANCE

Asynchronous AM S/N Ratio

Better than 60 dB below reference carrier with 100% amplitude modulation using 75 μ s de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio

Better than 50 dB below reference carrier with 100% amplitude modulation 75 μ s de-emphasis

ENVIRONMENTAL

Temperature Range

0°C to +50°C

Derate 3°C per 500 m above sea level

(2°C per 1,000 ft)

Humidity Range

0% to 95% non-condensing

Altitude

0 m to 3,000 m (0 ft to 10,000 ft)

Cooling Air Requirements

732m³/hr (431 cfm)

PHYSICAL

Dimensions

Open ventilation configuration:

184.5 cm H x 58.5 cm W x 87.8 cm D
(72.5" H x 23" W x 34.5" D)

Closed ventilation configuration - consult factory

Weight

196 kg (430 lbs)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.